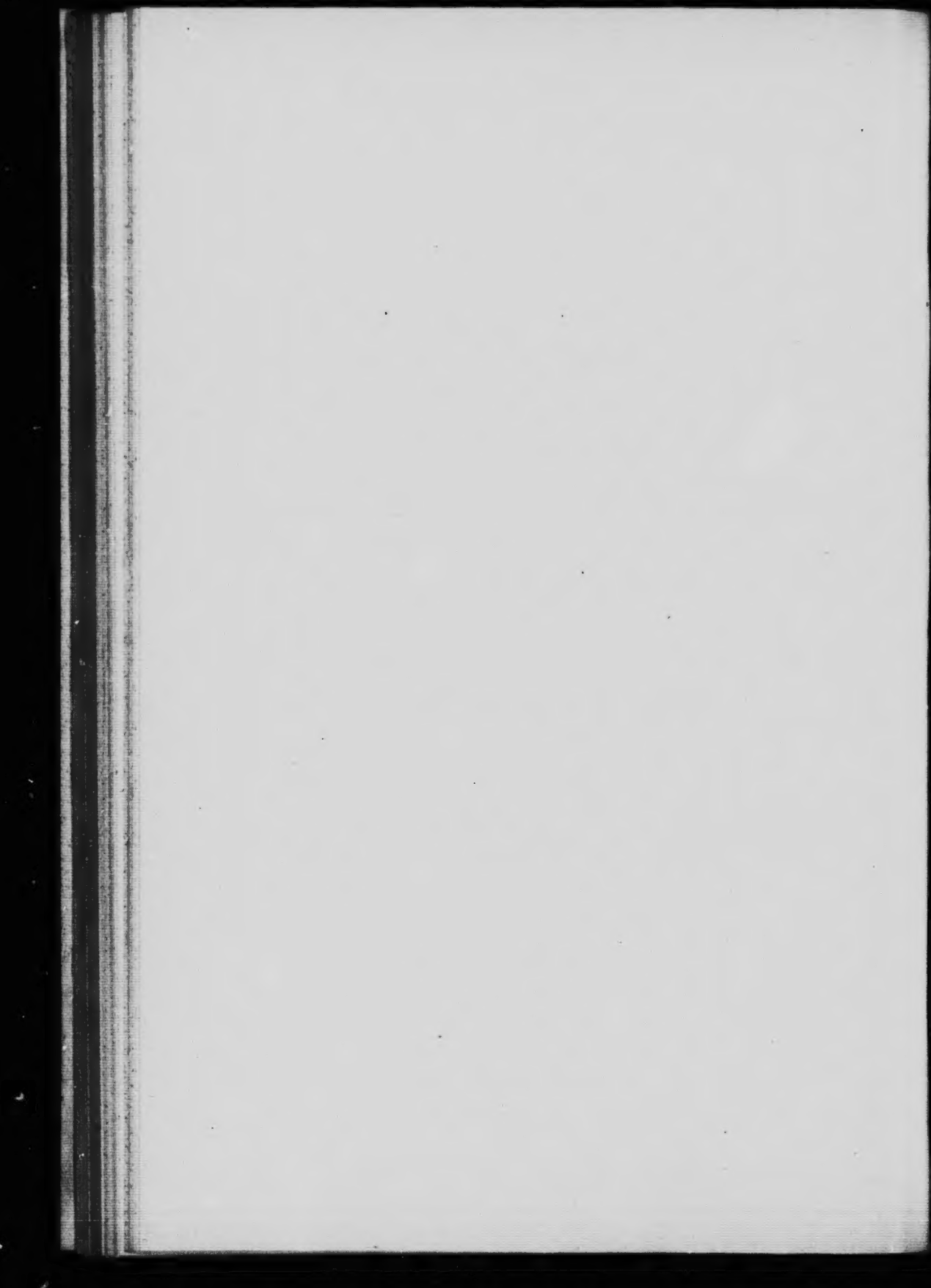


LABORATORY
OF THE
INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 407

MOLASSES



NOTES AND COMMENTS.

Under this heading, as occasion arises, the Bulletins issued by this Department will contain, as an appendix, such comment as may seem necessary or advisable upon matters relating to the work of the Department in connection with the administration of the Adulteration Act, the Fertilizers Act, the Feeding Stuffs Act or the Proprietary Medicines Act.

It frequently happens that correspondents ask information regarding the above Acts, of such nature that the matter in question possesses general interest, and comment upon it would prove acceptable and useful to others than the immediate questioner. In such cases the reply may find a place in these columns. For convenience of reference these notes will be numbered in series.

A. MCGILL,
Chief Analyst.

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 407

MOLASSES

OTTAWA, July 16, 1918.

GEO. W. TAYLOR, Esq.,
Assistant Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a report upon Molasses. The work reported, covering 165 samples, must be regarded as complementary to that detailed in Bulletin No. 312 (April, 1915) and is intended to furnish a basis for standardization of the article.

The excellent summing up of this work, written by Mr. L. E. Johnson of this staff, who was placed in charge of the investigation, makes it unnecessary for me to do more than recommend its publication in extenso.

The results now furnished together with those reported in Bulletin No. 312, will, I trust, be found to establish a basis for the standardization of Molasses.

I beg to recommend publication as Bulletin No. 407.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

“Dr. A. MCGILL,
Chief Analyst.

DEAR SIR,—I beg to report, herewith, analyses of molasses collected during October, 1917. In all, one hundred and sixty-five (165) samples were examined as follows:

At Halifax sub-laboratory.....	20 samples
“ Winnipeg sub-laboratory.....	36 “
“ Vancouver “ “	12 “
“ Ottawa “ “	97 “

Molasses has not yet been legally defined in the Dominion. The Washington authorities require that standard molasses contain not more than 5 per cent ash and not more than 25 per cent water; also it does not contain more than three hundred (300) milligrams of sulphur dioxide per kilogram. (Baird, Agric. Exp't., Sta., North Dakota. Special Bulletin, Vol. III, No. 17, page 291).

The scope of the work here was enlarged considerably over that of the previous collection in 1915, so as to obtain such additional information as would enable the Canadian authorities to standardize this article.

The following determinations were made:

Water and Solids.
Reducing Sugar (Fehling's Copper reduction method).
Ash.
Sucrose (Clerget Method).
Total Sugar (By difference).
Organic matter other than sugar (By difference).
Net Weight.

In addition to the above, sulphite determinations were made at Ottawa on all samples and glucose was estimated whenever the invert reading at 20° C. was suspiciously low or was dextrorotatory. Where glucose was thus indicated, its determination was made by polarizing the invert solution at 87° C. at which temperature glucose is the only optically active sugar.

It would seem that in handling molasses, refineries and producers find it difficult to obtain a perfectly homogeneous product. Referring particularly to the water and sucrose content of different samples of the same brand; take "Domolco" which gives every indication of being a high grade product.

	Water.	Sucrose.
Johnson (Ottawa).....	Max. 22.95% Min. 22.11%	Max. 37.94% 4 samples. Min. 34.70%
Davidson (Winnipeg).....	Max. 23.15% Min. 21.05%	Max. 39.50% 4 " Min. 34.43%
Hill (Vancouver)	Max. 21.50% Min. 19.40%	Max. 39.81% 2 " Min. 33.06%

These differences are evidenced in other brands as well. The variation of the water and solids determination in the hands of different analysts is partially explained by the use of different methods. Air drying at 70° C. was used at Vancouver whereas the refractometer in conjunction with Geerlig's table was employed here and at Halifax. Method used at Winnipeg not stated. Hence the necessity of using the same methods at all the laboratories under this Department. Referee work with molasses has shown the refractometer to give consistently good results for water and solids, ease of manipulation, speed, accuracy, small quantity needed, render it a much more desirable method for routine work than air drying.

The most probable explanation of the variation of the sucrose numbers, lies in the inability of refineries, etc., to obtain a uniform product.

The examination of the sulphur dioxide content shows that, of the 97 samples tested, none contain this bleaching agent in quantities sufficient to be designated injurious. Only eight (8) samples contain above 0.1 part of SO₂ expressed in parts per 2,000, the highest being 0.264 part per 2,000. The United States limit expressed in these terms is 0.6 part per 2,000. The distillation method was used, absorbing in deci-normal iodine, boiling off the iodine and precipitating with barium chloride, incinerating and weighing as barium sulphate.

Ash.—Of the 166 samples, 61 yield over 5 per cent ash; the minimum being 0.74 per cent; the maximum being 8.13 per cent.

Samples yielding under 3 %	68
" " 3 to 5 %	26
" " 5 to 7 %	54
" " above 7 %	18
	166

It may be noted that as the percentage of ash increases above 5 per cent the sugar content decreases in inverse ratio. Hence the ash may be taken as an important indication of the quality of the molasses. If samples of First, Second and Third molasses corresponding to the three crystallizations, could be obtained, it is very probable that the ash figures would be a very good criterion of these grades.

Sucrose.—The sucrose numbers show that the product on the Canadian market is very variable, ranging from 25.5 per cent to 54.68 per cent (excepting No 78878 which gives 18.44 per cent sucrose but contains nearly 30 per cent of commercial glucose).

A closer inspection shows:

3 samples have 50 % or over of sucrose	
47 " " 40 % to 50 % of "	
93 " " 30 % to 40 % of "	
22 " " less than 30 % of "	

165

There would seem to be a certain theoretical interdependence between ash and sucrose, also ash and total sugars, but this is only partly borne out by results. There are so many exceptions to almost every relationship that it is difficult to set limits for the sugar content unless limits are also established for certain variation from them. Such a course would seem to be too arbitrary and confusing.

Glucose.—Regarding the possible adulteration with glucose; some time was spent on this at first polarizing the inverted solution at 87° C. The apparatus used did not include a constant high temperature bath for polarizing, but even the imperfect adaptation used, shows that the method is to be recommended as giving a closer approximation to the glucose content than the Leach formula, which does not require polarizing at high temperature.

Theoretically, pure molasses should show no optical rotation at 87° after inversion, but as a matter of fact, there is nearly always a slight dextro-rotation. An average invert polarization of 13 samples being +3.02. This is verified by A. H. Bryan whose results on 18 samples of molasses of known purity gave an average polarization at 87° of +2.53, ranging from 0.0 to +4.18 or an equivalent of 0 to 2.5 per cent of glucose.

"Dextro-rotation is undoubtedly caused by some form of decomposition or fermentation. It may be due to a preponderance of dextrose in the reducing sugars, since levulose is more easily decomposed than dextrose, or it may be caused by the decomposition products formed when the raw juice is being defecated with lime, or again it might be caused by a special fermentation forming dextran". (Leach, page 623).

In order to determine the reliability of this high temperature polarization in estimating glucose, some investigatory work was done, using a sample of molasses with which commercial glucose was mixed in varying proportions.

Results are given here:

	Sample straight.	With 5% Glucose.	10%	20%	30%
Reading at 87° C.	+4.0	+7.84	+13.44	+30.56	+52.0
Calculated Glucose	2.45	4.81	8.25	18.75	31.9
Calc. glucose using Leach formula pol. at 20° C.			4.38	15.26	26.38

These results are expressed in terms of glucose polarizing at $+175^{\circ}$ V. The Leach formula for the approximation of glucose should not be used when there are considerable quantities of invert sugar present, which is usually the case with molasses.

Seven (7) samples show appreciable amounts of glucose ranging from 6.18 per cent to 29.26 per cent; of these, only two are accompanied by a suspiciously low sugar content and hence to be considered adulterated, if rightly sold as molasses.

Whether or not glucose is beneficial to health is a question on which authorities differ. However, it is usually required that its presence be stated on the label of the container. This would work out well on the article put up in tins, but the difficulty of enforcing such a statement when the molasses is sold from puncheons directly to the public, is obvious.

Net Weight.—In only one sample has the net weight been found appreciably below claim, i.e.

No. 79407=claim 23 ounces; found 21.5 ounces.

Summary.—It is suggested that:

- (1) Water and ash content be fixed.
- (2) If glucose be present, it should be declared on the label and if such a molasses-glucose mixture be sold from puncheons to the consumer, that some effective means be taken to inform the buyer as to what he is buying.
- (3) That the sulphur dioxide content be limited.

It is not considered advisable to put a limit on the sugar content because of the revolutionary nature of such an action on producers, especially the smaller ones without chemical control, and also because any such limit would, at best, be somewhat arbitrary. A low fixed ash will, to a certain extent, eliminate the most objectional grades, while a glucose regulation will protect the public against mixtures that masquerade as molasses.

Yours truly,

L. ERLE JOHNSON,
Public Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NEW BRUNSWICK—

1917.							
Nov. 30	Molasses..	78236	McBeath's Grocery, St. John, N.B.	3 jars.	40	.....	W. F. Hathway Co., St. John.
Dec. 3	" ..	78237	Crosby Molasses Co., Ltd., St. John, N.B.	3 tins.	Nil.	Vendors .....	.....
" 3	" ..	78238	" " " "	3 "	"	Thorn & Cameron, Barbados, B.W.I.	.....
" 3	" ..	78239	" " " "	3 "	"	"	.....
" 3	" ..	78240	Vanwart Bros., St. John, N.B.	3 jars.	40	Manning & Co., Barbados, B.W.I.	Hall & Fairweather, St. John, N.B.
" 3	" ..	78241	R. H. Coleman, St. John, N.B.	3 "	35	S. P. Musson Son & Co., Barbados, B.W.I.	Geo. E. Barbour, Co., Ltd., St. John, N.B.
" 6	" ..	78242	John Gibson & Son, Fredericton, N.B.	3 "	40	.....	Percy B. Evans, St. John, N.B.
" 11	" ..	78243	Sussex Mercantile Co., Ltd., Sussex, N.B.	3 pints	36	Manning & Co., Barbados, B.W.I.	Baird & Peters, St. John, N.B.
" 11	" ..	78244	Smith Bros., Sussex, N.B.	3 "	36	.....	Crosby Molasses Co., Ltd., St. John, N.B.
" 13	" ..	78245	D. A. McBeath, Moncton, N.B.	3 jars.	25	S. P. Musson Son & Co., Barbados, B.W.I.	Reed & Co., Moncton.

DISTRICT OF QUEBEC CITY—

Oct. 31	Melasse ..	70789	R. Nadeau, 195 Rue Arago, Quebec.	3 lbs.	36	Swan & Cameron ...	J. B. Renaud & Co.
Nov. 6	" ..	70790	Art Drolet, 712 St. Valier, Quebec.	3 "	38	Unknown	Whitehead, Turner Co.
" 6	" ..	70791	L. Jobin, 156 Dorchester, Quebec.	3 "	42	"	Turcotte Frere..
" 7	" ..	70792	Cantin & frere, 271 St. Joseph, Quebec.	3 "	35	"	Unknown
" 7	" ..	70794	E. Blais, 165 de la Couronne, Quebec.	3 "	38	"	Turcotte Frere..
" 7	" ..	70795	J. Nadeau, 151 de la Couronne, Quebec.	3 "	39	"	Unknown
" 7	" ..	70796	J. Falardeau, 120 de la Couronne, Quebec.	3 "	45	"	J. B. Renaud...
" 8	" ..	70797	J. Pepin, 132 Massue, Quebec.	3 "	39	Royal Molasses, Ar-lar.	.....
" 8	" ..	70798	J. E. Pichette, 143 Baillard, Quebec.	3 "	36	Unknown	N. Turcotte...
" 8	" ..	71114	E. Rheume, 172 Rue Roger, Quebec.	3 "	36	"	Joseph Co.

MOLASSES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Reducing Sugar.	Sucrose.	Total Sugar, (other than Glucose.)	Ash.	Organic Matter, (other than Sugar.)	Number of Parts of SO ₂ per 1000.	Commercial Glucose Polarizing at +175° V.	

JOHN C. FERGUSON, INSPECTOR.

Barbados	26.46	73.54	22.47	45.85	68.32	1.20	4.02	.....	.....	78236
Family Brand.....	22.61	77.39	18.17	47.90	56.07	8.13	13.19	.....	.....	78237
Crosby Gold Star, Fancy Barbados.	27.43	72.57	23.82	44.00	67.82	1.22	3.53	.....	.....	78238
Pan Cooking.....	23.00	77.00	14.52	39.35	53.87	8.05	15.08	.....	.....	78239
Fancy Barbados..	27.10	72.90	21.52	46.30	67.82	1.38	3.70	.....	.....	78240
Extra Fancy Barbados.	28.00	72.00	22.80	44.60	67.40	1.30	3.30	.....	.....	78241
Barbados.....	27.03	72.97	20.95	47.05	68.00	1.16	3.81	.....	.....	78242
Barbados Amber ..	28.28	71.72	15.62	51.60	67.22	0.75	3.75	.....	.....	78243
Fancy Barbados, Gold Star.	26.99	73.01	22.20	45.85	68.05	1.55	3.41	.....	.....	78244
Fancy Barbados ..	26.94	73.06	20.63	46.45	67.08	1.44	4.54	.....	.....	78245

F. X. W. E. BELAND, INSPECTOR.

Barbado	26.33	73.67	24.37	44.30	68.67	1.29	3.71	.....	.....	70789
"	26.79	73.21	22.03	46.30	68.33	1.13	3.75	.....	.....	70790
"	26.40	73.60	25.83	42.20	68.03	1.12	4.45	.....	.....	70791
"	26.89	73.20	23.90	41.15	68.05	1.00	4.06	.....	.....	70792
"	25.97	74.03	30.25	39.05	69.30	1.00	3.73	.....	.....	70794
"	26.13	73.87	22.20	46.90	69.10	1.37	3.40	.....	.....	70795
"	26.70	73.30	23.73	45.10	68.83	1.07	3.40	.....	.....	70796
Royal.	27.00	73.00	25.68	42.20	67.88	1.19	3.93	.....	.....	70797
Fancy	26.59	73.41	23.18	45.20	68.38	1.44	3.59	.....	.....	70798
"	26.31	73.69	26.73	40.25	66.98	2.20	4.51	.....	.....	71114

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher

DISTRICT OF QUEBEC PROVINCE—

1917.							
Oct. 27	Melasse	5682	Aristide Beauchamp, St. Jérôme.	3 lbs.	22		Hudon, Hebert.
" 27	"	5684	Chas. Taillon, St. Jérôme.	3 "	20		" "
" 27	"	5687	Alex. Villeneuve, St. Jérôme.	3 "	24	Hudon, Orsali	
" 29	"	5694	J. N. Desjardins, St. Jérôme.	3 "	20	Dufresne, Joliette.	
Nov. 5	"	5695	H. A. Valiquette, St. Janvier.	3 "	25	Chaput	
" 5	"	5696	M. Sauriol, St. Janvier.	3 "	25	Lacaille & Gendron.	
" 6	"	5697	A. Delorme, Ste. Thérèse de Blainville.	3 "	25	Hudon, Hebert.	
" 6	"	5505	A. Forget, Ste. Thérèse de Blainville.	3 "	23	" "	
" 20	"	5520	Noe Forget, Ste. Agathe des Monts.	3 "	25	Hudon, Orsali	
" 19	"	5521	David Boivin, St. Jérôme.	3 "	24	Pierre Simard, St. Jérôme.	

DISTRICT OF THREE RIVERS—

Oct. 22	Molasses.	7566	Felix Champagne, St. Felix de Valois.	1 qt.	23		L. Z. Magnan, Joliette.
" 22	"	7570	G. H. Reid, St. Felix de Valois.	1 "	23		
" 24	"	7572	Magnan Bros., Joliette.	1 "	25		Chevalier Bros., Joliette.
" 25	"	7577	A. A. Boucher, Joliette.	1 "	25		Jos. Dufresne, Joliette.
" 25	"	7581	Wm. Perrault, Joliette.	1 "	25		L. Z. Magnan, Joliette.
" 25	"	7583	Alex'r. Dufresne, Joliette.	1 "	25		Chevalier Fils, Joliette.
" 27	"	7586	J. H. Longpre, St. Gabriel Brandon.	1 "	23		Chevalier & Pouliot, Joliette.
" 27	"	7589	Chas. Peltier, St. Gabriel Brandon.	1 "	25		" "
" 29	"	7592	Alexis Martineau, St. Clophas.	1 "	23		Jos. Dufresne, Joliette.
" 31	"	7594	Ludger Chevette, St. Gabriel.	1 "	23		L. Z. Magnan, Joliette.

DISTRICT OF MONTREAL—

Nov. 5	Molasses.	78870	J. A. Turgeon, 42 Victoria St., Montreal.	3 pts.	50		Joseph Ward Co.
" 5	"	78871	Almy's Ltd., St. Catherine St., W., Montreal.	3 tins.	48	Dom. Molasses Co., Ltd.	
" 6	"	78872	A. Sennat, 191 Villeneuve St., W., Montreal.	3 "	75		

MOLASSES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Reducing Sugar.	Sucrose.	Total Sugar (other than Glucose.)	Ash.	Organic Matter (Other than Sugar.)	Number of Parts of K_2O_3 per 2000.		

N. CADIEUX, TEMPORARY INSPECTOR.

.....	26.95	73.05	24.93	42.24	67.17	1.02	4.86	.014	.....	5682
.....	26.25	73.35	24.87	43.00	67.87	0.84	4.64	.021	.....	5684
.....	26.44	73.56	22.53	45.80	68.33	1.24	3.99	.018	.....	5687
.....	25.45	74.55	22.93	41.79	64.72	2.11	7.72	.012	.....	5694
.....	26.40	73.60	28.17	39.97	68.14	0.74	4.72	.017	.....	5695
.....	16.90	83.10	23.13	45.44	68.57	1.05	13.48	.046	.....	5696
.....	26.65	73.35	25.16	42.77	67.93	1.09	4.33	.011	.....	5697
.....	26.60	73.40	21.69	45.71	67.40	1.93	4.07	.033	.....	5696
.....	27.65	72.35	25.73	39.45	65.18	1.08	6.69	.024	.....	5520
.....	27.81	73.00	22.92	45.26	68.18	1.19	3.63	.032	.....	5521

DR. V. P. LAVALLEE, INSPECTOR.

.....	25.17	74.83	25.08	40.15	65.23	2.32	7.28	.023	.....	7566
.....	27.36	72.64	18.35	47.37	65.72	1.34	5.58	.022	.....	7570
.....	24.88	75.12	22.05	40.15	62.20	2.46	10.46	.018	.....	7572
.....	25.58	74.42	24.46	39.52	63.98	2.65	7.79	.014	.....	7577
.....	25.00	75.00	22.22	41.22	63.44	2.44	9.12	.017	.....	7581
.....	24.91	75.09	23.26	40.52	63.78	2.64	8.67	.031	.....	7583
.....	24.73	75.27	24.24	38.47	62.71	2.61	9.95	.021	.....	7586
.....	24.68	75.32	24.69	39.24	63.93	2.66	8.73	.031	.....	7589
.....	Broken in transit									7592
.....	24.58	75.42	22.48	44.30	66.78	2.24	6.40	.004	.....	7594

J. J. COSTIGAN, INSPECTOR.

.....	27.90	72.10	34.33	32.15	66.48	1.15	4.47	.050	.....	78870
.....	22.59	77.41	23.95	28.94	52.89	7.38	17.14	.085	.....	78871
Brier Rabbit Brand	25.00	75.00	22.40	38.53	60.93	4.52	9.55	.207	.....	78872

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MONTREAL—

1917.							
Nov. 6	Molasses.	78873	James Graham, Fairmount Ave., Montreal.	3 tins.	75		
" 6	"	78874	" " " "	3 pts.	42		Wm. Galbraith & Son
" 6	"	78875	O. Sansregret, Fairmount Ave., Montreal.	3 "	42		Laporte, Martin Cie, Ltd.
" 6	"	78876	E. Lamarche, St. Lawrence Boul., Montreal.	3 "	45		
" 6	"	78877	E. Drapeau, 80 Casgrain St., Montreal.	3 "	42		Watt & Godin..
" 6	"	78878	R. D. Deruches, 171 Laurier Ave., Montreal.	3 "	45		Home Food Co.
" 6	"	78879	J. O. Chamberland, 92 Bienville St., Montreal.	3 "	32		Patenaude, Carignan, Cie.

DISTRICT OF VALLEYFIELD—

Oct. 31	Molasses.	79321	H. A. Trickey, Huntingdon	3 pts.	38		Joseph Ward & Co.
Nov. 8	"	79322	Peter Delorme, Vankleeck Hill.	3 "	38		
" 8	"	79323	E. Z. Labrosse, Vankleeck Hill.	3 "	38		L. Chaput Fils, Cie, Ltd.
" 13	"	79324	J. A. McLaughlin, Cowansville.	3 lbs.	21		
" 13	"	79325	Hubbard & Bell, Cowansville.	2 "	21		
" 15	"	79326	D. H. Connor, Bedford.	3 pts.	30		
" 15	"	79327	C. O. Jones, Bedford.	3 "	35		
" 15	"	79328	A. Nadeau, Bedford.	3 "	38		
" 22	"	79329	McCallum & Lahaie, Buckingham.	3 "	38		
" 22	"	79330	Wm. O'Neill, Buckingham.	3 "	38		

DISTRICT OF OTTAWA

Oct. 25	Molasses.	80443	Anderson & Langstaff, Kempville.	3 tins.	45	H. N. Bate & Sons, Ltd., Ottawa.	
" 25	"	80446	C. E. McEniry, Cornwall.	3 "	75	The Dom. Molasses Co., Ltd., Halifax.	
" 25	"	80448	Stone & Fisher, Iroquois.	3 "	45	Torbitt & Castleman, Louisville, Ky.	
" 25	"	80450	Hare & McInnis, Iroquois.	8½ lbs.	57	B. M. Co.	Forbes Bros.
" 26	"	80454	F. F. Adams, Cardinal.	3 bots.	18		Gilmour & Co., Brockville.
Nov. 3	"	80468	W. A. Hunter & Sons, Pembroke.	4 lbs.	28	Unknown	

MOLASSES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.									No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Reducing Sugar.	Sucrose.	Total Sugar (other than Glucose).	Ash.	Organic Matter (other than Sugar).	Number of parts of SO_2 per 2,000.	Commercial Glu- cose Polarizing at +175° V.		

Concluded.

Domoleo.....	22.95	77.05	31.50	37.94	69.44	1.94	5.67	.046	.....	78873	
.....	27.11	72.89	23.89	44.17	68.06	1.42	3.41	.045	.....	78874	
.....	27.00	73.00	21.27	47.33	68.60	1.02	3.38	.026	.....	78875	
.....	25.93	74.07	28.37	41.48	69.85	0.94	3.28	.022	...	78876	
.....	24.76	75.24	24.46	43.04	67.50	2.27	5.47	.015	..	78877	
.....	33.29	66.71	25.72	18.44	44.16	0.75	21.90	.184	29.26	78878	
.....	24.18	75.82	21.11	34.41	55.52	4.88	15.42	.040	15.30	78879	

J. J. COSTIGAN, ACTING INSPECTOR.

.....	25.73	74.27	30.07	38.16	68.23	1.18	4.86	.031	....	79321	
.....	23.45	76.55	29.09	34.73	63.82	2.92	9.81	.005	....	79322	
.....	27.66	72.34	26.14	39.65	65.79	1.24	5.31	.008	....	79323	
.....	25.88	74.12	17.86	38.77	56.63	3.91	13.58	.023	....	79324	
.....	27.60	72.40	21.74	40.72	62.46	1.47	8.47	.014	.....	79325	
.....	24.24	75.76	19.95	41.78	61.73	3.98	10.06	.032	.....	79326	
.....	36.23	65.77	21.86	33.79	55.65	4.37	5.75	.042	....	79327	
.....	27.19	72.90	10.42	50.98	61.40	2.83	8.67	.016	....	79328	
.....	26.55	73.45	22.16	47.61	69.77	1.22	2.46	.016	.....	79329	
.....	26.13	73.87	25.01	42.32	67.33	2.13	4.41	None	..	79330	

J. A. RICKEY, INSPECTOR.

Red Fox Brand...	27.75	72.25	18.82	33.64	52.46	5.74	14.05	.041	...	80443	
Domoleo Brand.	22.26	77.74	35.10	36.81	71.91	1.75	4.06	.018	...	80446	
Guarant'd Pure.											
Select Brand.....	27.53	72.47	19.70	28.40	48.10	5.82	18.55	.066	.....	80446	
Choice Barbadoes	27.38	72.62	16.89	43.40	60.29	2.17	10.16	.012	.....	80450	
M ^B C Brand.											
Special West In-	24.72	75.18	22.60	31.17	53.77	5.80	15.61	.029	.....	80454	
dies.											
.....	23.80	76.20	21.27	45.00	66.27	2.13	7.80	.020	.....	80468	

BULLETIN No. 407—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF OTTAWA—

1917.							
Oct.	3	Molasses.	80472 Leacy & Shields, Pembroke.	3 tins.	60	Maples Ltd., Toronto	
"	3	"	80476 M. Howe, Pembroke	3 "	45	Torbitt & Castleman, Louisville, Ky.	
"	12	"	80494 Bryson-Graham, Ltd., Ottawa.	3 "	54	The Dom. Molasses Co., Ltd., Halifax.	
"	19	"	80502 T. Bowman, 785 Somerset St., Ottawa.	3 "	45	" "	

DISTRICT OF KINGSTON—

Nov.	5	Molasses.	81936 J. Gilbert, Kingston	3 tins.	45	H. P. Eckardt Co., Toronto.	
"	5	"	81937 W. E. Hopkinson, Kingston	3 "	40	Torbitt & Castleman, Louisville, Ky.	
"	6	"	81938 S. R. Artis, Belleville	3 "	45	Canada Maple, Montreal.	
"	6	"	81939 A. W. Carwardine, Belleville.	3 "	45	H. P. Eckardt, Toronto.	
"	6	"	81940 A. G. Vermilyea, Belleville.	3 "	39	J. Sloan Co., Belleville.	
"	7	"	81941 W. H. Ireland, Trenton, Ont.	3 "	45	" "	
"	7	"	81942 T. C. Conville, Trenton, Ont.	3 "	45	Dom. Molasses Co., Halifax.	
"	7	"	81943 E. T. March, Trenton, Ont.	3 "	45	J. Sloan Co., Belleville.	
"	7	"	81944 D. A. Parks, Trenton, Ont.	3 "	45	Armstrong & Pafford, Toronto.	
"	7	"	81945 F. Rosevear, Trenton, Ont.	3 "	38	Penick & Ford, Ltd., New Orleans.	

DISTRICT OF TORONTO—

Nov.	5	Molasses.	80991 Medland Bros., 73 Front St. East, Toronto.	3 cans.	30	Ideal Mfg. Co.	
"	5	"	80992 H. P. Eckardt & Co., 3 Church St., Toronto.	3 "	30	Vendors	
"	5	"	80993 Armstrong & Pafford, Ltd., 36 Yonge St., Toronto.	3 "	28	"	
"	5	"	80994 Eby Blain, Ltd., 21 Front St. E., Toronto.	3 "	29	Torbitt & Castleman Co., Louisville, Ky.	
"	5	"	80995 T. Kinnear & Co., 49 Front St. E., Toronto.	3 "	34	" "	
"	6	"	80996 J. C. Craig, 468 Spadina Ave., Toronto.	3 "	60	Dom. Molasses Co., Ltd., Halifax.	

MOLASSES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Reducing Sugar.	Sucrose.	Total Sugar (other than Glucose).	Ash.	Organic Matter (other than Su- gar).	Number of parts of SO ₃ per 1000. Commercial Glu- cose Polarizing at +175° V.		

Concluded.

Lion Brand, Choice New Orleans. Pure.	22.20	77.80	19.04	36.46	55.50	6.31	15.99	.029	.....	80472
Pure Louisiana. Stag Brand, very fancy. Kettle Style.	28.50	71.50	18.56	30.17	48.73	5.22	17.55	.063	.....	80476
Gingerbread Brand, Choice West Indies.	23.00	77.00	23.66	31.30	54.96	6.61	15.43	.070	.....	80494
" " "	23.55	76.45	26.15	31.49	57.64	6.10	12.71	.109	.....	80602

JAS. HOGAN, INSPECTOR.

.....	21.90	78.10	18.23	33.35	51.58	5.88	20.64	.034	....	81936
.....	24.60	75.40	22.93	26.89	49.82	4.81	20.77	.037	.....	81937
.....	35.28	64.72	18.44	25.50	43.94	4.78	16.00	.026	6.18	81938
.....	24.50	75.50	19.42	34.56	53.98	5.62	15.90	.020	...	81939
.....	29.98	70.02	18.69	30.90	49.59	6.76	13.67	.023	.....	81940
.....	29.20	70.80	18.88	29.26	48.14	7.54	15.12	.018	....	81941
.....	24.03	75.97	23.81	28.79	52.60	6.03	17.34	.063	.....	81942
.....	26.88	73.12	21.27	31.99	53.26	6.88	12.98	.264	....	81943
.....	28.71	71.29	20.20	23.19	53.39	5.47	12.43	.062	.....	81944
.....	24.24	75.76	19.10	34.09	53.19	5.72	16.85	.023	....	81945

H. J. DAGER, INSPECTOR.

Ideal Brand, Pure Louisiana.	24.18	75.82	21.62	32.43	54.05	5.80	15.97	.022	....	80991
Monarch Brand. Fancy New Or- leans.	24.35	75.65	19.52	33.26	52.78	5.96	16.91	.014	.....	80992
Sunshine Brand. Pure.	29.63	70.37	18.96	33.93	52.88	7.57	9.92	.065	.....	80993
Prize Brand.....	28.60	71.20	19.51	30.17	49.68	6.45	15.07	.110	.....	80994
Red Fox Brand. Louisiana Bakers.	30.53	69.47	20.78	28.39	49.17	6.00	14.30	.155	.....	80995
Domestic, Guar- anteed Pure.	22.66	77.34	26.04	34.70	70.74	1.55	5.05	.029	.....	80996

BULLETIN No. 407—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF TORONTO—

1917							
Nov. 7	Molasses..	80997	The T. Eaton Co., Ltd., Toronto.	3 cans.	39	Penick & Ford, Ltd., New Orleans.	Unknown
" 7	" ..	80998	Swan Bros., 162 King St. E., Toronto.	3 "	36		Unknown
" 7	" ..	81009	M. Farber, 613 Queen St. W., Toronto.	3 "	30	Parsons Brown & Co.	.....
" 7	" ..	81010	W. J. Dillon, 622 Queen St. W., Toronto.	3 "	45	Alexander Molasses Co., Chicago.	.....

DISTRICT OF HAMILTON—

Oct. 23	Molasses..	80960	Griffin Bros., Brampton ...	3 cans.	39	.....	Groceries Ltd., Toronto.
" 23	" ..	80961	Hood & Benallich, Guelph.	1 pint.	15	.....	Unknown
" 25	" ..	80962	Wettlanfer Bros., Waterloo.	3 pts.	40	.....	H. P. Eckardt Co., Ltd., Toronto.
" 25	" ..	80963	Rendall & Roos, Kitchener.	3 cans.	38	The Dom. Molasses Co., Ltd., Halifax.	.....
" 25	" ..	80964	Stuebin & Son, Kitchener...	3 jars.	30	.....	Jas. Lumbers & Co., Ltd., Toronto.
" 26	" ..	80965	R. E. Robertson, Galt	3 cans.	45	Canada Maple Exchange, Ltd., Montreal.	.....
" 26	" ..	80966	Co-operative Association, Galt.	3 "	48	Penick & Ford, Ltd., New Orleans.	.....
" 26	" ..	80967	J. McGregor, Brantford....	3 "	45	Jas. Lumbers & Co.	.....
" 30	" ..	80968	Hilton & Kent, 303 Dundas St., Hamilton.	3 "	39	Geo. E. Bristol & Co., Hamilton.	.....
" 30	" ..	80899	William Carroll, Queen & Charlotte St., Hamilton.	3 "	42	Alexander Molasses Co., Chicago.	.....

DISTRICT OF WINDSOR—

Nov. 5	Molasses..	65329	Mann & McClennan, Aylmer, Ont.	3 tins.	45	.....	Harding Co., St. Thomas.
" 6	" ..	65333	Stratton & Martin, Aylmer, Ont.	3 "	45	.....	E. Adams & Co., London, Ont.
" 6	" ..	65335	Young & Caven, Aylmer, Ont.	3 "	45	.....	M. Masuret & Co., London, Ont.
" 7	" ..	65339	O. R. Hauselman, Simcoe..	3 "	45	.....	Geo. Foster & Sons, Brantford
" 7	" ..	65341	Harry C. Marlatt, Simcoe..	3 "	45	.....	Smye & Co., Hamilton.

MOLASSES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Reducing Sugar.	Sucrose.	Total Sugar (other than Glucose).	Ash.	Organic Matter (other than Sugar).	Number of parts of SO ₂ per 2,000.	Commercial Glucose Polarizing at + 175° V.	

Continued.

Aunt Dinah Brand. Pure.	23.65	76.35	19.05	38.32	47.37	6.01	22.97	.041	.....	80097
Purity Brand. New Orleans.	26.61	73.39	20.25	28.30	48.55	5.86	18.98	.034	.....	80998
Regina Brand.	30.00	70.00	19.61	29.95	49.56	7.01	13.43	.059	...	81009
Cherry Grove Brand. Pure.	30.31	69.69	23.26	26.24	49.50	4.61	15.58	.013	.....	81010

H. J. DAGER, ACTING INSPECTOR.

Crusader Brand.	27.06	72.94	19.23	34.22	53.45	6.56	12.93	.035	.....	80980
.....	23.76	76.24	18.10	34.01	52.11	6.64	17.49	.064	.....	80961
.....	19.95	80.05	19.71	29.80	49.51	6.16	24.38	.083	.....	80962
Gingerbread Brand. Choice West India.	21.00	79.00	23.67	29.75	53.42	5.66	19.92	.098	.....	80963
.....	25.25	74.75	13.94	37.53	51.47	6.01	17.27	.059	.....	80964
Cook's Friend.	29.70	70.30	17.78	32.20	49.98	4.24	16.08	.043	.....	80965
Aunt Jemima. Pure New Orleans. Contains Sulphur Dioxide	23.52	76.48	19.00	32.58	51.58	6.02	18.88	.029	.....	80966
Melrose Brand.	29.70	70.30	21.52	31.52	53.04	6.52	10.74	.108	.....	80967
The Flag. Pure New Orleans.	27.60	72.40	22.35	26.91	49.26	4.71	18.43	.005	.....	80968
Cherry Grove. Pure.	30.46	69.54	22.22	25.92	48.14	4.97	16.43	.041	.....	80969

JOHN TALBOT, INSPECTOR.

Crown Ribbon Brand, Louisiana	28.52	71.48	20.67	29.26	49.93	5.46	16.09	.007	.....	65329
Fan Brand. Pure.	27.58	72.42	21.51	29.04	50.55	5.81	16.06	.015	.....	65333
Blue Circle Brand. New Orleans.	26.91	73.09	22.67	29.99	52.66	7.27	13.16	.057	.....	65335
Magnolia.	27.45	72.55	19.90	32.24	52.14	5.03	15.38	.060	.....	65339
Aunt Jemima.	22.20	77.80	19.05	30.96	50.01	6.21	21.58	.036	.....	65341

Nature of Sample.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF WINDSOR—

1917							
Nov. 7	Molasses.	65344	J. A. Calder, Simcoe.....	3 tins.	38	Penick & Ford, Ltd., New Orleans.	
" 8	"	65351	J. A. Trestian, Tillsonburg..	3 "	45	Dom. Molasses Co., Halifax.	
" 8	"	65353	W. Bone, Tillsonburg	3 "	45		H. P. Eckardt & Co., Toronto.
" 13	"	65369	J. Mathews, Watford				T. Kenny & Co., Sarnia.
" 14	"	65374	F. T. Zimmer, Petrolia.....	3 tins.	60	Dom. Molasses Co., Halifax.	

DISTRICT OF NORTHERN ONTARIO—

Oct. 20	Molasses.	78675	A. J. Carson, Haileybury...	3 cans.	45	Penick & Ford, New Orleans.	
Nov. 8	"	78682	F. C. Preston Co., Hailey- bury.	3 "	45	Torbitt & Castleman Co., Louisville, Ky.	
" 12	"	78691	Binkley Co., New Liskeard.	3 "	45	H. P. Eckardt Co., Toronto.	
" 19	"	79402	J. C. Starr, Cobalt.....	3 "	30	A. J. Young Co., North Bay, Ont.	
" 21	"	79406	Mrs. J. McCaffrey, Hailey- bury.	3 "	75	S. J. Major, Ltd., Ottawa, Ont.	
" 22	"	79407	Mrs. J. P. Jean, North Co- balt.	3 "	45	Torbitt & Castleman Co., Louisville, Ky.	
Dec. 5	"	79409	P. D. Boyer, Haileybury....	2 lbs.	2		L. Chaput fils, Montreal.
" 6	"	79413	J. K. Battah, Cobalt.....	2 "	30		Unknown ...

DISTRICT OF MANITOBA—

Nov. 5	Molasses.	79657	A. E. Hill Co., Ltd., Hart- ney, Man.	3 lbs.	55	Ramsay Co., Ltd., Montreal.	
" 6	"	79658	A. Lamont, Margaret, Man.	3 "	75	Dom. Molasses Co., Halifax.	
" 6	"	79659	Chester Hall, Elgin, Man...	3 "	40		Campbell Bros. & Wilson, Winnipeg.
" 7	"	79660	H. G. Cox, Ninette, Man...	3 "	50		Kelly Confection Co., Vanc.
" 8	"	79661	James Overand & Sons, Nin- ette, Man.	3 "	60		Dom. Molasses Co., Halifax.
" 14	"	79662	Decosse, Sons & Co., Ltd., Somerset, Man.	3 "	30		A. McDonald Co., Winnipeg.
" 15	"	79663	W. Hartwell, Swan Lake, Man.	3 "	60		Codville Co., Winnipeg.
Dec. 4	"	79664	Portage Provision Co., 1322 Portage Ave., Winnipeg.	3 "	50		Crabey Molasses Co., St. John, N.B.

MOLASSES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.									No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Reducing Sugar.	Sucrose.	Total Sugar (other than glucose).	Ash.	Organic Matter (other than sugar).	Number of Parts of SO ₂ per 2000.	Commercial Glucose Polarizing at + 175° V.		

Concluded.

Aunt Dina Brand.	21.54	78.46	19.56	31.71	51.27	5.78	21.41	.028	...	65344	
Pure N. Orleans.											
Choice West India	23.30	76.70	23.53	32.80	56.33	6.01	14.36	.090	...	65361	
Monarch Brand.	23.70	76.30	20.83	34.74	55.57	6.89	13.84	.092	...	65363	
New Orleans.											
Maple Leaf Brand.	26.25	73.75	19.85	30.39	50.24	5.76	17.75	.032	...	65369	
Domolco.	22.11	77.89	34.78	37.40	72.18	1.40	4.31	.062	...	65374	

THOS. E. ARMSTRONG, INSPECTOR.

Aunt Dinah Brand	22.50	77.50	19.54	33.37	52.91	5.36	19.23	.040	...	78675	
Prize Brand	27.15	72.85	20.52	34.40	54.92	5.52	12.41	.066	...	78682	
Monarch Brand...	23.99	76.01	19.32	32.14	51.46	5.61	19.04	.020	...	78691	
Lincoln Brand ..	25.05	74.95	21.57	27.77	49.34	5.31	20.26	.052	...	79402	
Awatso Br'd. Pure	27.15	72.85	19.18	28.90	48.08	5.71	19.06	.024	...	79405	
New Orleans.											
Red Fox Brand...	23.05	71.95	22.08	28.80	50.88	5.18	15.89	.121	...	79407	
.....	26.73	74.27	28.47	40.83	69.35	0.94	3.98	.022	...	79409	
.....	28.13	71.87	8.58	54.68	63.26	2.04	6.57	.011	...	79413	

I. B. COSGROVE, INSPECTOR.

Kitchener Brand..	23.17	76.83	25.85	39.50	65.35	5.35	6.13	.....	.....	73657	
Domoleo Brand...	23.18	76.85	35.38	34.43	69.81	1.35	5.69	.....	.....	79658	
Dixi Brand.....	27.53	72.47	21.70	31.06	52.76	4.80	14.91	.....	.....	79659	SO ₂ declared.
Sugarhouse Brand.	26.30	73.70	27.92	35.63	63.55	5.05	5.10	.....	.....	79660	
Gingerbread	22.60	77.40	25.15	32.00	57.15	5.80	14.45	.....	.....	79661	
Brand.											
Pennant Brand....	23.12	76.88	21.00	31.66	52.66	4.85	19.37	.....	.....	79662	SO ₂ declared.
Reliance Brand...	31.46	68.54	16.92	30.94	47.86	4.55	16.13	.....	.....	79663	
.....	20.50	79.50	24.85	36.84	61.69	5.15	12.66	.....	.....	79664	

BULLETIN No. 407—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	* Manufacturer.	Furnisher.

DISTRICT OF MANITOBA—

1917.							
Dec.	4	Molasses..	76605 J. Rulman, 699 Pine St., Winnipeg.	3 lbs.	45	.....	New Orleans Molasses Co., Memphis, Tenn.
"	4	"	76606 P. & B. Cash Stores, 390 Portage Ave., Winnipeg.	3 "	40	.....	Torbitt & Castleman, Louisville, Ky.

DISTRICT OF SASKATCHEWAN—

Dec.	6	Molasses..	76966 Surdia & Oltman, Assiniboia.	3 cans.	75	Kelly Confection Co., Vancouver.	Campbell, Wilson & Strathdee, Regina.
"	6	"	76965 W. P. Ball, Assiniboia.	3 "	60	Dom. Molasses Co., Ltd., Halifax.	.....
"	6	"	76971 Sanford & Co., Assiniboia.	3 "	40	.....	H. G. Smith Ltd., Regina.
"	7	"	76978 Stevenson Bros., Shaunavon.	3 "	75	Dom. Molasses Co., Ltd., Halifax.	Codville Co., Moose Jaw.
"	7	"	76981 McNicol & Brown, Shaunavon.	3 "	75	Penick & Ford, New Orleans.	Moose Grocery Co., Moose Jaw.
"	7	"	76982 North End Grocery, Shaunavon.	3 "	55	Kelly Confection Co., Ltd., Halifax.	A. McDonald Co., Moose Jaw.
"	19	"	76994 C. K. Bookman, Tuxford.	3 "	60	Crosby Molasses Co., Ltd., St. John, N.B.	McDonald, Crawford Co., Moose Jaw.
"	19	"	76999 R. T. Lowther, Tuxford.	3 "	75	Torbitt & Castleman, Louisville, Ky.	Cameron & Heap, Regina.
"	20	"	77096 The Paragon Store, Moose Jaw.	3 "	45	No Vary Products Co., Toronto.	Moose Grocery Co., Moose Jaw.
"	20	"	77097 The Kent & Brown Co., Ltd., Moose Jaw.	3 "	1.20	Alexander Molasses Co., Chicago.	McDonald Crawford Co., Moose Jaw.
Nov.	13	"	78584 H. B. Hall & Sons, Lloydminster.	3 "	60	Kelly Confection Co., Vancouver.	.....
"	15	"	78590 Tarbell Bros., No. Battleford.	3 "	90	The Dom. Molasses Co., Halifax.	.....
"	15	"	78593 Hub Clothiers, No. Battleford.	3 "	45	Penick & Ford, Ltd.	.....
"	19	"	78597 J. A. Roy, Delmas.	3 "	75	Dom. Molasses Co., Halifax.	.....
"	20	"	81801 Amson & Co., Radisson.	3 "	90	" " "	.....
"	28	"	81807 Borden Trading Co., Borden.	3 "	55	Crosby Molasses Co., St. John, N.B.	.....

MOLASSES.

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.								No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Reducing Sugar.	Sucrose.	Total Sugar (other than Glucose).	Ash.	Organic Matter (other than Sugar).	Number of parts SO ₂ per 2,000.		

Concluded.

.....	23.92	76.08	20.31	31.66	51.97	5.50	18.61	.....	79665	SO ₂ declared.
.....	25.63	74.37	18.92	33.32	52.24	5.05	17.08	.....	79666	

L. H. HALL AND J. M. DANIS, INSPECTORS.

.....	22.95	77.05	28.30	33.16	61.46	5.00	10.59	.....	76966	
.....	25.45	74.55	23.46	34.37	57.83	5.00	11.72	.....	76968	
Marquis Brand,...	27.05	72.95	17.77	32.56	50.33	4.90	17.72	.....	76971	
Domoleo Brand,...	22.35	77.65	30.30	37.09	67.39	1.40	8.86	.....	76978	
Aunt Dinah Brand	22.25	77.75	20.53	33.16	53.69	4.70	19.36	.....	76981	
Sugarhouse Brand.	21.05	78.95	23.07	36.79	59.86	2.70	16.39	.....	76982	
Family Brand	24.25	75.75	20.92	37.23	58.15	5.00	12.60	.....	76994	
Red Fox Brand,...	25.10	74.90	22.46	33.17	56.23	4.50	14.17	.....	76999	
No Vary Brand,...	26.25	73.75	14.46	44.02	58.48	3.50	11.77	.....	77096	
.....	21.05	78.95	20.15	38.59	58.74	4.60	15.61	.....	77097	
.....	21.15	78.85	33.61	37.30	70.91	3.55	4.39	.....	78584	
.....	22.52	77.48	36.77	36.93	73.70	1.10	2.68	.....	78590	
.....	22.32	78.68	21.00	30.76	51.76	5.05	20.87	.....	78593	SO ₂ declared.
.....	21.67	78.33	37.46	36.91	73.47	1.10	3.76	.....	78597	
.....	23.07	76.93	23.77	31.93	55.70	5.75	15.48	.....	81801	
.....	23.57	76.43	19.93	36.16	56.09	6.65	13.69	.....	81807	

BULLETIN No. 407—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as Given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ALBERTA—							
1917.							
Oct. 24	Molasses.	52842	The John Irwin Co., Ltd., Calgary.	3 tins	75	Dom. Molasses Co., Ltd., Halifax.	
" 25	"	52843	Jenkins & Co., East Calgary	3 "	60	No-Vary Products Co., Minneapolis.	
" 26	"	52844	The Quaker Grocery, 708 4th St., W. Calgary.	3 "	60	Kelly Confection Co. Ltd., Vancouver.	
" 26	"	52845	Mrs. R. Berkor, 509 4th St., W. Calgary.	3 "	75	Dom. Molasses Co., Ltd., Halifax.	
" 26	"	52846	Maitland & Co., 334a 8th ave., E. Calgary.	3 "	45	Penick & Ford, Ltd., New Orleans.	
" 29	"	52847	Thos. A. Gaetz, Red Deer.	3 "	75		Campbell Bros. & Wilson, Winnipeg.
" 29	"	52848	A. M. Campbell, Lacombe.	3 lbs.	30		L. T. Mewburn & Co., Calgary.
" 30	"	52849	Lawson & Co., Ltd., Wetaskiwin.	3 tins	75	Dom. Molasses Co., Ltd., Halifax.	
" 30	"	52850	J. J. Christopher, Wetaskiwin.	3 "	75	Kelly Confection Co. Ltd., Vancouver.	
" 31	"	52851	J. H. Morris, Edmonton.	3 "	75	Punbar Molasses & Syrup Co., New Orleans.	

DISTRICT OF ROCKY MOUNTAINS—							
Nov. 2	Molasses.	68524	Star Grocery, Nelson, B.C.	3 tins	75	Penick & Ford, Ltd., New Orleans.	
" 5	"	68523	R. A. Smith, Moyie, B.C.	3 "	1.95	Dom. Molasses Co., Ltd., Halifax.	
" 5	"	68534	W.H.F. Crosby, Moyie, B.C.	3 "	75	Ramsays, Limited, Montreal.	
" 8	"	68543	F. Roo, Elko, B.C.	3 "	60	Ramsay Bros. & Co., Vancouver.	
" 15	"	68554	Trites Wood Co., Fernie, B.C.	3 "	90	Kelly Confection Co. Ltd., Vancouver.	

DISTRICT OF VANCOUVER—							
Nov. 16	Molasses.	76236	The Main Grocery Store, 1102 Commercial Drive, Vancouver.	3 cans	45	Kelly Confection Co. Ltd., Vancouver.	
" 19	"	76237	W. Parsons, 2425 Main St., Vancouver.	3 "	36	Ramsay Bros. & Co., Ltd., Vancouver.	
" 20	"	76238	C. H. Merritt, 2250 4th Ave., W. Vancouver	3 "	60	" "	
" 22	"	76239	Larsen & Aune, New Westminster.	3 "	90	Crosby Molasses Co., Ltd., St. John, N.B.	
" 22	"	76240	L. W. Knight, 11th Ave. & Commercial Drive, Vancouver.	3 "	38	Penick & Ford, Ltd., New Orleans.	
" 22	"	76241	Braidwood's Grocery, 949 Commercial Drive, Vancouver.	3 "	40	"	
" 23	"	76242	L. McTaggart & Sons, 794 Granville st., Vancouver.	3 "	75	Dom. Molasses Co., Ltd., Halifax.	

MOLASSES.

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.										No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Water.	Solids.	Reducing Sugar.	Sucrose.	Total Sugar (other than glucose).	Ash.	Organic Matter (other than sugar).	Number of parts of SO ₂ per 2000.	Commercial Glu- cose polarizing at + 175° V.			

A. W. R. MARKLEY, INSPECTOR.

Domolco Brand...	22.30	77.70	33.46	37.31	70.77	1.40	5.53	.....	.....	52842	
No-Vary.....	25.10	74.90	17.77	47.64	65.41	3.50	5.90	.....	.....	52845	
Chief Brand, New Orleans.	22.30	77.70	26.50	37.69	64.19	1.20	9.31	.....	.....	52844	
Gingerbread Brand, choice West India.	22.45	77.55	23.84	31.35	55.19	4.70	17.66	.....	.....	52845	
Pickaninny Brand	22.30	77.70	28.46	32.86	61.32	4.90	11.48	.....	.....	52846	
Dixi Brand, pure Louisiana.	25.85	74.15	20.92	31.05	51.97	4.50	17.68	.....	.....	52947	
Barbados.	26.25	73.75	22.15	41.31	63.46	3.30	6.99	.....	.....	52848	
Domolco Brand, guaranteed pure.	21.05	78.95	33.46	39.50	72.96	1.60	4.39	.....	.....	52849	
Sugarhouse Brand	21.05	78.95	24.53	37.39	61.92	3.50	13.53	.....	.....	52850	
Rector Brand, Louisiana Cooking.	25.10	74.90	25.92	23.82	49.74	4.60	20.56	.....	23.80	52851	

THOS. PARKER, INSPECTOR

Aunt Dinah.....	24.15	75.85	17.42	31.96	49.38	6.40	20.07	.....	.....	68524	Contains SO ₂
Domolco	23.00	77.00	33.80	33.06	66.86	2.08	11.66	.....	.....	68533	
Kitchen.....	26.40	73.20	25.28	30.17	55.45	5.03	13.39	.....	.....	68534	
Plantation.....	27.30	72.70	23.64	40.74	63.78	5.80	3.12	.....	.....	68543	
Sugarhouse	22.65	77.35	31.96	34.67	66.63	3.52	11.55	.....	.....	68554	

G. G. ARMYTAGE, INSPECTOR.

Sugarhouse	23.20	76.80	32.28	33.40	65.68	3.86	12.03	.....	.....	76236	
Plantation.....	17.10	82.90	28.94	40.14	69.05	3.96	9.89	.....	.....	76237	
New Orleans.	19.85	80.15	28.81	37.99	66.83	3.92	9.40	.....	.....	76238	
Household	25.45	74.55	24.50	41.97	66.47	2.25	7.18	.....	.....	76239	
Aunt Dinah	21.35	78.65	28.34	33.17	61.51	4.62	12.52	.....	.....	76240	Contains SO ₂
Pickaninny.	22.25	77.75	20.54	34.37	54.91	6.32	16.42	.....	.....	76241	" "
Domolco	23.60	76.40	31.36	39.81	71.17	1.87	5.43	.....	.....	76242	